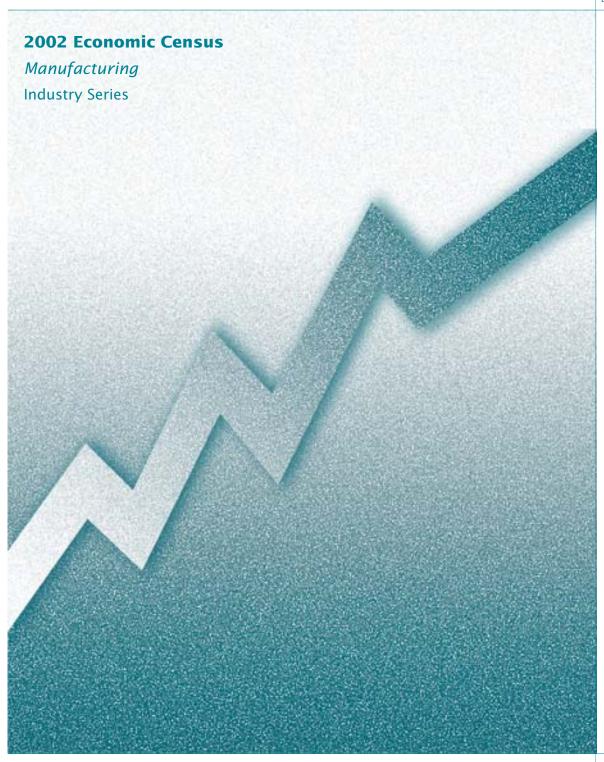
Steel Foundries (Except Investment): 2002

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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All employees		Production workers				Total	Total	Total capital
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
331513, Steel foundries (except											
investment)	230	248	16 831	630 672	13 116	26 855	442 395	1 367 693	1 166 341	2 536 168	r59 707
2001	N	Ň	19 592	727 361	15 827	33 724	529 336	1 416 684	1 251 297	2 690 486	73 787
2000	N	N	22 344	797 149	18 140	39 197	587 408	1 558 218	1 232 044	2 771 377	81 223
1999	N	N	23 952	818 054	19 486	41 160	600 757	1 760 636	1 274 967	3 016 953	115 553
1998	N	N	24 560	806 689	20 019	41 923	583 722	1 762 940	1 196 770	2 954 419	115 988
1997	263	286	23 472	749 753	19 188	39 716	549 960	1 749 741	1 158 236	2 899 041	124 873

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments ²		All employees		Production workers						
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
331513, Steel foundries (except investment)												
United States. California Indiana Louisiana Michigan Ohio Oregon Pennsylvania Texas Wisconsin	1 - 2 2 -	248 8 25 10 4 25 17 7 28 19	114 2 9 5 2 13 10 4 13 10	16 831 338 929 1 049 178 1 306 1 512 1 098 1 269 1 493 1 586	630 672 16 651 35 209 39 066 6 065 47 364 48 096 50 845 40 261 53 847 66 547	13 116 288 779 715 143 1 040 1 187 653 1 006 1 198 1 165	26 855 650 1 701 1 408 333 2 118 2 331 1 417 1 891 2 379 2 255	442 395 13 966 28 219 20 678 4 660 33 677 34 187 23 228 28 245 38 882 40 447	31 390 61 664	1 166 341 32 943 44 711 84 319 8 165 77 552 70 157 85 738 58 273 62 091 70 179	2 536 168 65 444 107 800 138 481 22 877 184 033 175 658 216 543 143 490 169 807 202 804	r59 707 r1 189 r3 570 r2 469 r5 780 r5 963 r5 009 r2 830 r6 839 r5 671

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
331513, Steel foundries (except investment)	
Companies ¹ number	230
All establishments ²	248 134 66 48
All employees³ number. Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	16 831 807 241 630 672 176 569
Production workers, average for year	13 116 13 108 13 159 13 179 13 001
Production worker hours	26 855 442 395
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	1 166 341 839 735 93 184 39 800 118 897 74 725
Quantity of electricity purchased for heat and power	3 340 041
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	2 536 168 2 260 323 142 840 133 005 113 676 12 004 7 325
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industries \$1,000.	94 2 336 564 2 260 323 76 241
Coverage ratiopercent.	97
Value added	1 367 693
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	348 588 126 917 103 491 118 180
Total inventories, end of year \$1,000 Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	343 444 126 339 101 935 115 170
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000 Total capital expenditures (new and used) \$1,000 Buildings and other structures (new and used) \$1,000 Machinery and equipment (new and used) \$1,000 Automobiles, trucks, etc., for highway use \$1,000 Computers and peripheral data processing equipment \$1,000 All other expenditures for machinery and equipment \$1,000 Total retirements \$1,000 Gross value of depreciable assets at end of year \$1,000	1 400 933 59 707 77 302 52 405 11 253 5 433 45 719 39 978 11 420 662
Depreciation charges during year\$1,000	73 521
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	22 789 10 346 12 443
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	106 896 72 22 090 3 335 2 875 2 769 1 161 2 643 6 603 5 405 3 942 56 073

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on 2002 Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

			All emp	oloyees	Pr	oduction worke	ers		Total	Total	Total
Employment size class		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	Total value of shipments (\$1,000)	capital expendi- tures (\$1,000)
331513, Steel foundries (except investment)											
All establishments Establishments with — 1 to 4 employees 5 to 9 employees 10 to 19 employees 20 to 49 employees 5 to 99 employees 5 to 99 employees 50 to 999 employees 250 to 499 employees 500 to 999 employees 1,000 to 2,499 employees 1,000 to 2,499 employees 2,500 employees or more	2 4 8 8 2 2 - 4 1 -	248 67 26 41 39 27 31 11 6	16 831 138 196 534 1 157 1 926 5 048 4 122 3 710	630 672 4 940 7 429 20 248 38 696 71 648 189 676 174 203 123 832	13 116 113 160 422 941 1 388 4 068 3 187 2 837	26 855 211 325 856 1 844 2 793 8 354 6 446 6 026	442 395 3 886 5 916 15 839 27 773 43 867 138 270 121 120 85 724	1 367 693 6 314 14 512 40 681 94 509 137 288 433 589 346 833 293 967	1 166 341 22 978 9 951 23 614 58 681 91 084 304 032 479 408 176 593	2 536 168 29 899 24 665 64 760 152 002 229 052 740 171 824 332 471 287	'59 707 '690 '685 '1 658 '6 525 '10 799 '16 271 '12 912 '10 167
Administrative records ⁴	9	108	720	27 360	592	1 188	22 064	56 696	31 809	87 542	r2 020

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or		All	All em	ployees	Production workers				Total	Total	Total
product class code	Industry or primary product class	estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of value of materials shipment	value of shipments (\$1,000)	
331513	Steel foundries (except investment)	248	16 831	630 672	13 116	26 855	442 395	1 367 693	1 166 341	2 536 168	r59 707
3315131 3315133	Other carbon steel castings, except investment	47	7 051	253 208	5 748	11 661	197 087	550 373	602 044	1 160 171	r19 387
3315135	investment	38	3 974	166 882	2 835	5 755	98 449	350 524	280 288	623 232	r18 338
3313133	Other alloy steel castings, except investment	28	4 555	164 665	3 513	7 412	111 170	380 121	237 810	620 554	r14 259

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of companies with		Product	shipments
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
331513	Steel foundries (except investment)	N N	X	X	2 336 564 2 692 742
3315131	Other carbon steel castings, except investment	N N	X X	X X	1 063 445 1 169 105
33151311	Cast carbon steel railroad car wheels and railway specialties	N N	X X	X X	402 778 427 879
3315131101	Cast carbon steel railroad car wheels and railway specialties ¹	26	Х	x	402 778
33151312	Other carbon steel castings, except investment	11 N	X	X	427 879 657 505
3315131208	Other carbon steel castings, except investment ¹	N 59	X X X X X X	X	741 226 657 505
3315131Y	Other carbon steel castings, except investment, nsk	N N	X	X	N 3 162
3315131YWV	1997 Other carbon steel castings, except investment, nsk	N N N	X X X	X X X	N 3 162 N
3315133	High alloy steel castings, except investment	N	X	X	600 640
33151331	High alloy steel castings, except investment	N N	X	X	738 566 595 605
3315133101	High manganese alloy steel castings, except investment ¹	N 22	X	X S S	738 566 137 359
3315133106	Other high alloy steel castings, except investment ¹	22 60	× × × × × ×	X X	162 765 458 246
3315133Y	High alloy steel castings, except investment, nsk	95 N	X	X	575 801 5 035
3315133YWV	High alloy steel castings, except investment, nsk	N N N	X X X	X X X	5 035 N
3315135	Other alloy steel castings, except investment	N	X	x	554 591
33151351	Other alloy steel castings, except investment	N N	X X	X	728 230 549 376
3315135101	Other alloy steel railway specialties castings, except	N	X	X	728 230
	investment ¹	5 6	X	S D	87 880 D
3315135106	Other alloy steel rolls for rolling mills, except investment ¹	5 5	X X	S D	23 798 D
3315135111	All other alloy steel castings, except investment ¹	48 79	X X X	9206.2	437 698 586 891
3315135Y	Other alloy steel castings, except investment, nsk	N N	X	X	5 215 N
3315135YWV	Other alloy steel castings, except investment, nsk	N N	X X	X X	5 215 N
331513W	Steel foundries (except investment), nsk, total	N	X	X	117 888
331513WY	Steel foundries (except investment), nsk, total	N N	X	X	56 841 117 888
331513WYWW	Steel foundries (except investment), nsk, for nonadministrative-record establishments	N N	×	×	56 841 65 169 S
331513WYWY	Steel foundries (except investment), nsk, for administrative- record establishments	N N N	X X X	X X X	52 719 S

¹For additional detail, see Current Industrial Report MA331A, Iron and Steel Castings.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3315131	Other carbon steel castings, except investment	
	United States	1 063 445
	1997	1 169 105 10 544
	1997 Michigan	21 016 73 622 39 198
	Ohio	106 373 167 524
	Pennsylvania	54 713 91 569
	Texas	28 752 57 865
	Wisconsin	72 174 125 349
3315133	High alloy steel castings, except investment	
	United States	600 640 738 566
	California	17 588 21 486
	Michigan	61 133 60 937
	Ohio	26 895 73 633
	Oregon	87 645 57 803
	Pennsylvania	51 024 59 987
	Texas	29 970 37 900
	Wisconsin	92 292 165 484
3315135	Other alloy steel castings, except investment	
	United States	554 591 728 230
	Michigan	22 145 28 643
	Ohio	18 626 17 007
	Pennsylvania	25 614 28 435
	Texas	88 157 93 283
	Wisconsin	14 361 46 177

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
331513	Steel foundries (except investment)		
00900001	Total materials	X	839 735
33120044	Pig iron shapes and forms (excluding silvery iron, castings, forgings, and fabricated metal products)	X X	813 365 D
33111204	Ferrochromium shapes and forms (excluding castings, forgings, and fabricated metal products)	X X X X	N 14 236 N
33111202	Ferromanganese, silicomanganese, and manganese shapes and forms (excluding castings, forgings, and fabricated metal products)	X X	15 997 N
33111206	Ferrosilicon (more than 8 percent silicon) shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D N
33100013	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	x X	80 425 68 729
33141924	Nickel and nickel-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	×	24 879
33141947	Cobalt-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X X	N 4 864
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X X	4 095 11 059
	1997	Х	20 234
00190027	Iron and steel scrap (excluding home scrap)	X	215 554
00190082	All other purchased scrap, excluding home scrap	X X X	N 53 871
32712400	Clay refractories	X X X	69 667 5 110 9 609
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	X	16 140 20 664
32712500	Nonclay refractories	X X X X	8 995 14 923
32700009	All other stone, clay, glass, and concrete products	X	3 651 4 539
33299700	Industrial patterns	X	5 632 15 234
33350003	Industrial dies, molds, jigs, and fixtures	X X X	2 116 4 828
001900A5	All other industrial and commercial machinery and computer equipment	XX	5 644 6 029
21232005	Sand	X	23 100 33 532
00970099	All other materials and components, parts, containers, and supplies	X X X	259 740 496 076
00971000	Materials, ingredients, containers, and supplies, nsk	X X X	24 957 45 206

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.